

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

010454W0	ACTION (Form PCT/ISA/2	20) as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
PCT/US 02/33928	16/10/2002	18/10/2001						
Applicant	10/10/2002	10/10/2001						
QUALCOMM INCORPORATED								
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This International Search Report consists  It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.						
Basis of the report								
	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the						
	as carried out on the basis of a translation of the	ne international application furnished to this						
Authority (Rule 23.1(b)).  b. With regard to any nucleotide an	d/or amino acid sequence disclosed in the in	ternational application, the international search						
was carried out on the basis of the	e sequence listing : nal application in written form.							
=	mational application in computer readable form	n.						
	furnished subsequently to this Authority in written form.							
=	furnished subsequently to this Authority in whitely form.							
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the							
_	inhermational application as filed has been furnished.  the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
2. Certain claims were four	nd unsearchable (See Box I).							
3. Unity of Invention is lack	king (see Box II).							
4. With regard to the tittle,								
the text is approved as su	bmitted by the applicant.							
	hed by this Authority to read as follows:							
MULTIPLE-ACCES HYBRID	OFDM-CDMA SYSTEM WITH FREQU	ENCY-DOMAIN SPREADING						
<ol><li>With regard to the abstract,</li></ol>								
X the text is approved as su	ibmitted by the applicant.							
the text has been establis	thed, according to Rule 38.2(b), by this Authori e date of mailing of this international search rep							
6. The figure of the drawings to be publ	lished with the abstract is Figure No.	3						
as suggested by the appli	icant.	None of the figures.						
because the applicant fail	ed to suggest a figure.							
X because this figure better	characterizes the invention.							

## INTERIMITIONAL SEARCH REPORT

tional Application No PCT/US 02/33928

Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L5/02

According to International Patent Classification (tPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system tollowed by classification symbols) IPC 7 HO4L HO4B

Category \* Citation of document, with indication, where appropriate, of the relevant passages

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

	Charles of decenterity with addition, where appropriate, or	inc fortun passages	Tiblevant to dami ved.
X	EP 1 128 592 A (NTT DOCOMO IN 29 August 2001 (2001-08-29)	c)	1,4-18, 20,21, 23, 25-28, 35,36, 38-42, 44-48
	page 6, line 45 -page 8, line	57	
	page 10, line 45 -page 11, li figures 2-4.18.21	ne 11;	
Y	Figures 2-4,10,21		2,3,19, 22,24, 29-34, 37,43
		-/	
		•	
χ Furt	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
° Special ca	stegories of cited documents	*T* later document published after the into	mational filing date
	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or th invention	the application but eory underlying the
'E' earlier filing o	document but published on or after the international date	"X" document of particular relevance; the c cannot be considered novel or cannot	taimed invention
which	ent which may throw doubts on priority claim(s) or is cifed to establish the publication date of another	involve an inventive step when the do  "Y" document of particular relevance; the o	cument is taken alone
citatio	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an in document is combined with one or me	ventive step when the ore other such docu-
O docum	moone		
other "P" docum	means ont published prior to the international filling date but	ments, such combination being obvio in the art.	
P docum later t	means	ments, such combination being obvious in the art.  "&" document member of the same patent Date of mailing of the international se-	family
other "P" docum later t	means ent published prior to the international filing date but han the priority date claimed actual completion of the international search	in the art. *&* document member of the same patent  Date of mailing of the international set	family
other "P" docum later t	means ent published prior to the international filing date but han the priority date claimed	in the art.  *&* document member of the same patent	family
P docum later t	means ent published prior to the international filing date but han the priority date claimed actual completion of the international search	in the art. *&* document member of the same patent  Date of mailing of the international set	family

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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	STIRLING-GALLACHER R A ET AL: "Performance of a OFDM-CDMA system with orthogonal convolutional coding and	1,4-18, 20,21, 23,
	interference cancellation" VEHICULAR TECHNOLOGY CONFERENCE, 1997, IEEE 47TH PHOENIX, AZ, USA 4-7 MAY 1997,	25-28, 35,36, 38-42, 44-48
	NEW YORK, NY, USA,IEEE, US, 4 May 1997 (1997-05-04), pages 860-864, XP010228965 ISBN: 0-7803-3659-3	44-48
	page 860 -page 861; figures 1,2	
Y	US 5 559 790 A (DOI NOBUKAZU ET AL) 24 September 1996 (1996-09-24)	2,3,19, 22,24, 31-34, 37,43
	column 1, line 9 - line 14; figures 1,2,4 column 2, line 12 -column 4, line 19 column 7, line 18 -column 8, line 50	
Y	WO 01 20840 A (FRANCE TELECOM ;HELARD JEAN FRANCOIS (FR); MITSUBISHI ELECTRIC COR) 22 March 2001 (2001-03-22) abstract page 1, line 8 - line 12	29,30
	page 2, line 14 -page 3, line 6 page 5, line 15 -page 7, line 1; figures 1,2	
А	TOMBA L ET AL: "DOWNLINK DETECTION SCHEMES FOR MC-CDMA SYSTEMS IN INDOOR ENVIRONMENTS"  IEICE TRANSACTIONS ON COMMUNICATIONS, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E798, no. 9,	1-48
	1 Septembér 1996 (1996-09-01), pages 1351-1360, PRO00636076 ISSN: 0916-8516 page 1351 -page 1355; figures 1,2	

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## INTERNATIONAL SEARCH REPORT

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